PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	TOP TWIPTER A COTYON		SUDE A 1/41 C				
0309 PCT	FOR FURTHER ACTION See Form PCT/IPEA/416						
International application No.	International filing date (day/	month/year) P	riority date (day/month/year)				
PCT/SE2004/001708	23.11.2004	2	6.11.2003				
International Patent Classification (IPC) or national classification and IPC							
D21C 9/147							
Applicant							
Kvaerner Pulping AB et al							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of _3 sheets, including this cover sheet.							
3. This report is also accompanied by ANNEXES, comprising:							
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report							
and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes							
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the							
Supplementa	I Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
, containing a sequence listing and/or tables related thereto, in electronic							
form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications r	elating to the following items:						
Box No. I Basis of	<u> </u>						
Box No. II Priorit	Box No. II Priority						
Box No. III Non-es	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial						
applicability; citations and explanations supporting such statement Box No. VI Certain documents cited							
Box No. VI Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand	Da	ate of completion of	this report				
02.06.2005		09.11.2005					
Name and mailing address of the IPEA/SE		thorized officer					
Patent- och registreringsverket Box 5055							
S-102 42 STOCKHOLM		Marianne Bratsberg/MP					
Fassimile No. 145 9 557 72 99		Telephone No. +46 8 782 25 00					

Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001708

Box	No. I	Basis of the report						
1.	With n	regard to the language, this report is based on:						
		the international application in the language in which it was filed						
		a translation of the international application into						
		which is the language of a translation furnished for the purposes of:						
		international search (Rules 12.3(a) and 23.1(b))						
•		publication of the international application (Rule 12.4(a))						
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))						
2.	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
	\boxtimes	the international application as originally filed/furnished						
		the description:						
		pages as originally filed/furnished						
		pages* received by this Authority on pages* received by this Authority on						
		the claims:						
•	I I	an originally filed/franished						
		pages* as originary theoritanished pages* as amended (together with any statement) under Article 19						
		pages* received by this Authority on						
		pages* received by this Authority on						
		the drawings:						
		pages as originally filed/furnished						
		pages* received by this Authority on pages* received by this Authority on						
	a sequence listing and/or any related table(s) see Supplemental Box Relating to Sequence Listing.							
3.		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, Nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to the sequence listing (specify):						
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).							
		the description, pages						
		the claims, Nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to the sequence listing (specify):						
*	If iten	m 4 applies, some or all of those sheets may be marked "superseded."						

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001708

leasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; itations and explanations supporting such statement				
Claims Claims	1-9	YES NO		
Claims Claims	1-9	YES NO		
Claims Claims	1-9	YES NO		
	Claims Claims Claims Claims Claims Claims	Claims 1-9 Claims 1-9 Claims 1-9 Claims 1-9 Claims 1-9		

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 5306391 A
D2: US 4419184 A
D3: US 4177105 A
D4: US 4840703 A
D5: US 6238517 B1

The cited documents represent the general state of the art. The invention defined in claims 1-9 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method and the claimed system for controlling the addition of oxygen gas and alkali to the oxygen gas delignification of cellulose pulp. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-9 is novel and is considered to involve an inventive step. The invention is industrially applicable.